

Title (en)
IMAGING DEVICE FOR IMAGING RADIATION

Title (de)
STRAHLUNGS-BILDAUFNAHMEVORRICHTUNG

Title (fr)
DISPOSITIF DE FORMATION D'IMAGES DESTINE A UN RAYONNEMENT D'IMAGERIE

Publication
EP 0932842 A1 19990804 (EN)

Application
EP 97909356 A 19970929

Priority
• EP 9705436 W 19970929
• GB 9621470 A 19961015

Abstract (en)
[origin: GB2318411A] An imaging device for imaging radiation includes an image cell array (16, figure 1). The image cell array includes an array of detector cells 19 which generate charge in response to incident radiation and an array of image cell circuits 20. Each image cell circuit is associated with a respective detector cell. The image cell circuit includes counting circuitry 44 for counting plural radiation hits incident on an associated detector cell, so that counts can be made for each cell in the array individually. The image cell circuit also includes threshold circuitry 42 connected in between each detector and each counting circuit. This receives signals generated in the associated detector cell, the size of which are dependent on the incident radiation energy, and compares these signals with one or more threshold values. The counting circuitry is then connected to the threshold circuitry so that only radiation hits within a predetermined energy range or ranges are counted.

IPC 1-7
G01T 1/24; **G01T 1/29**

IPC 8 full level
G01T 1/24 (2006.01); **G01T 1/29** (2006.01)

CPC (source: EP US)
G01T 1/247 (2013.01 - EP US); **H04N 25/773** (2023.01 - EP)

Cited by
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GB 2318411 A 19980422; **GB 2318411 B 19990310**; **GB 9621470 D0 19961204**; AT E216085 T1 20020415; AU 4707397 A 19980511; CA 2268627 A1 19980423; DE 69711902 D1 20020516; DE 69711902 T2 20021114; EP 0932842 A1 19990804; EP 0932842 B1 20020410; ES 2175361 T3 20021116; HK 1010577 A1 19990625; IL 128703 A0 20000131; IL 128703 A 20040620; JP 2001502424 A 20010220; JP 2011174936 A 20110908; JP 2015004681 A 20150108; JP 5623954 B2 20141112; JP 5800966 B2 20151028; NO 991780 D0 19990414; NO 991780 L 19990615; US 2001025914 A1 20011004; US 2002092970 A1 20020718; US 6248990 B1 20010619; US 6355923 B2 20020312; WO 9816853 A1 19980423

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